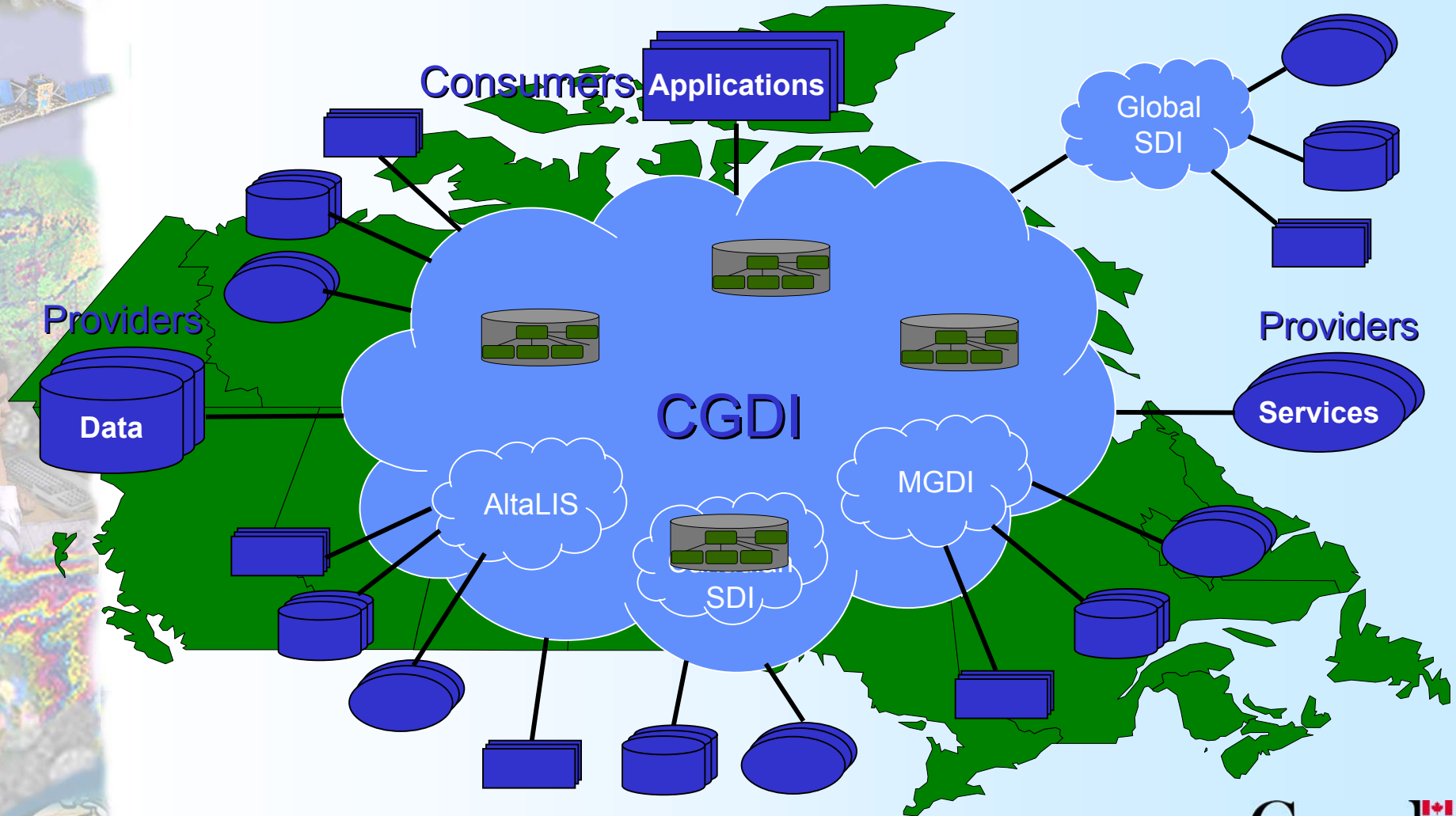


Canadian Geospatial Data Infrastructure Access Services

**OGC EO SIG
Meeting
T. Fisher
June 2001**

CGDI Vision

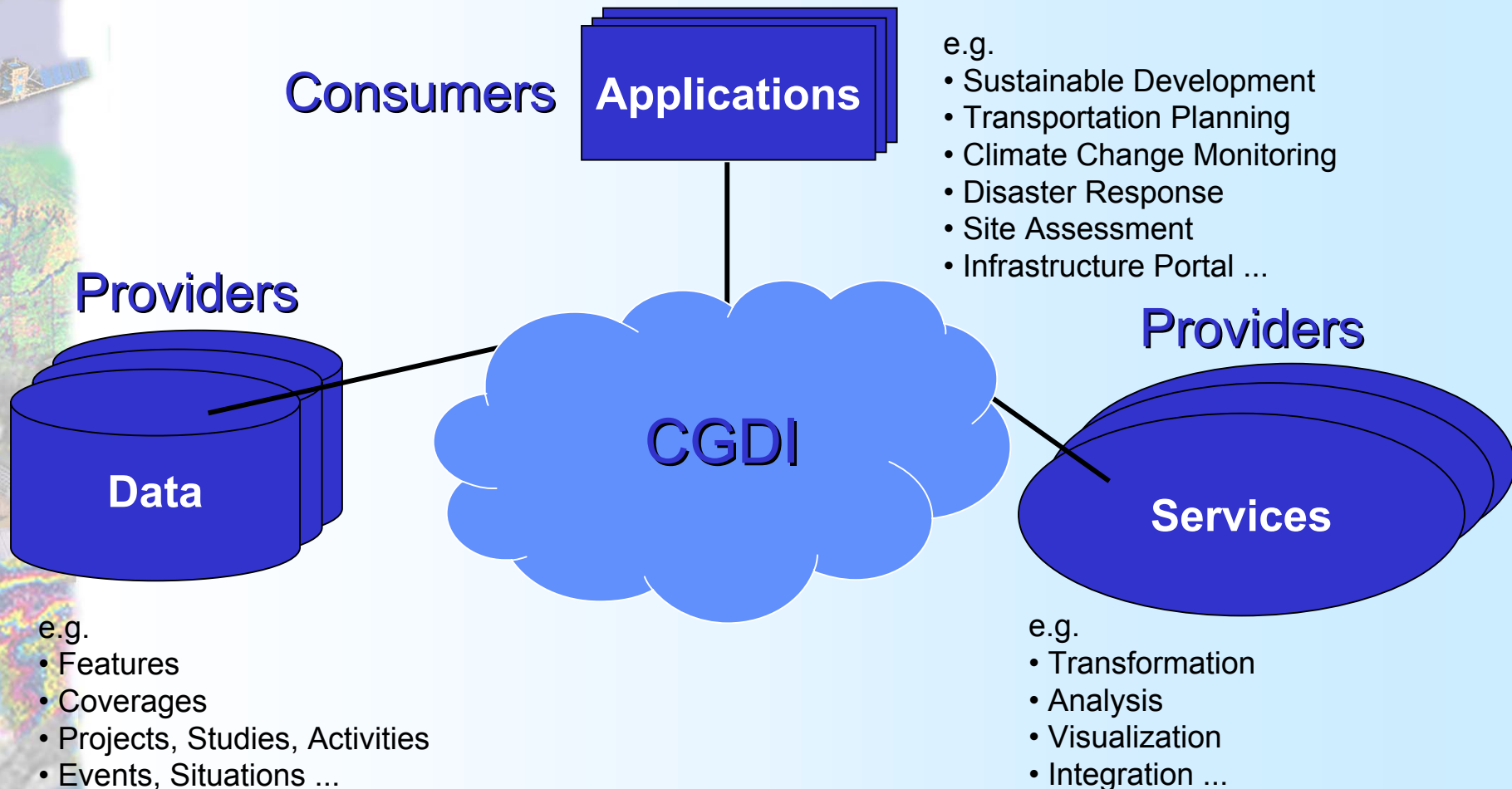
Enabling effective sharing of Geospatial Information over the Internet



Geospatial Applications, Data and Services

Slide 3
21-Jun-01

CGDI will enable geospatial applications with online data and services



Consumers will be able to access many kinds of geospatial capabilities

Canada

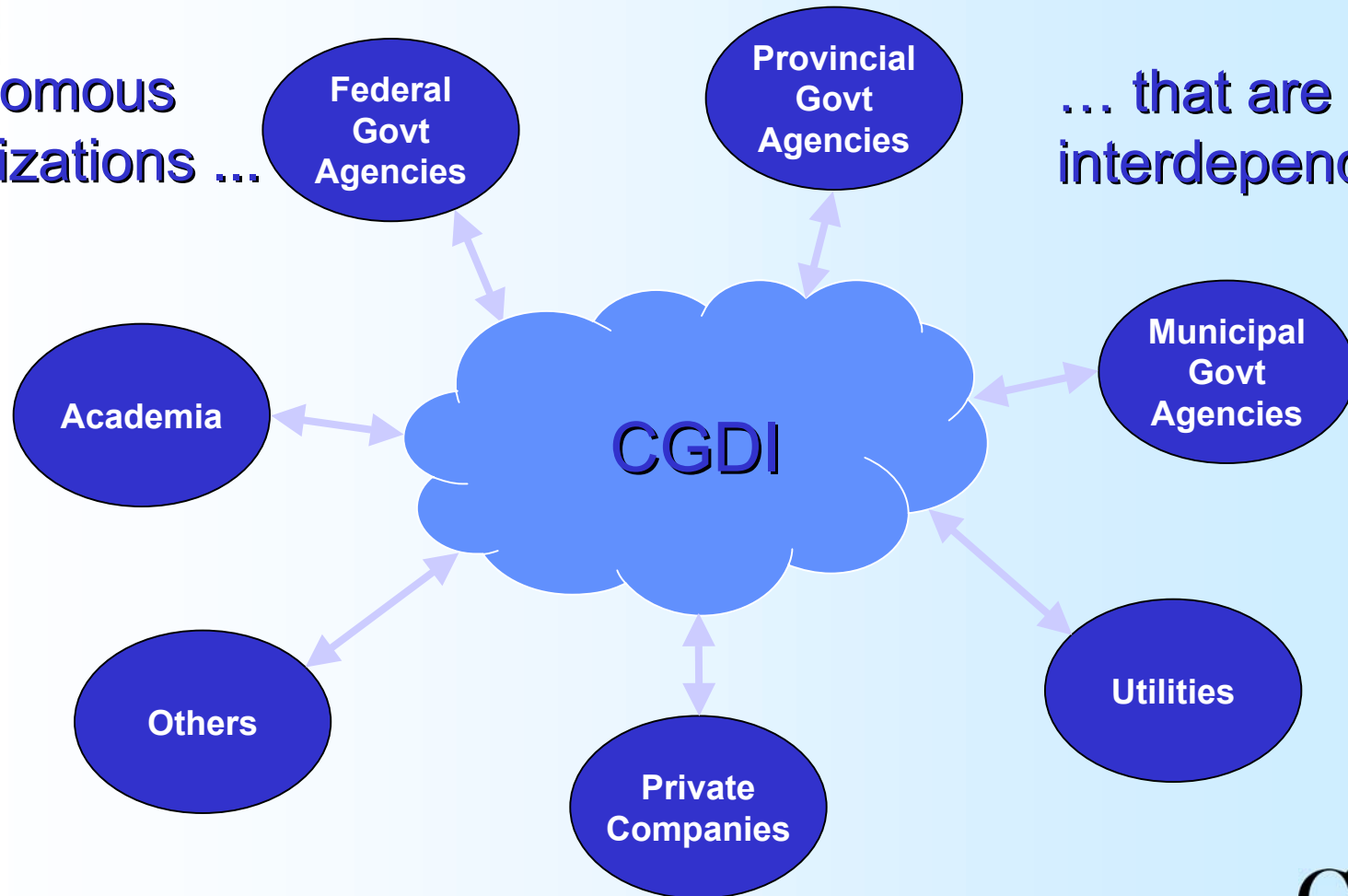
Natural Resources Canada

Autonomous Interdependent Organizations

*CGDI will enable organizations to remain autonomous
while working together*

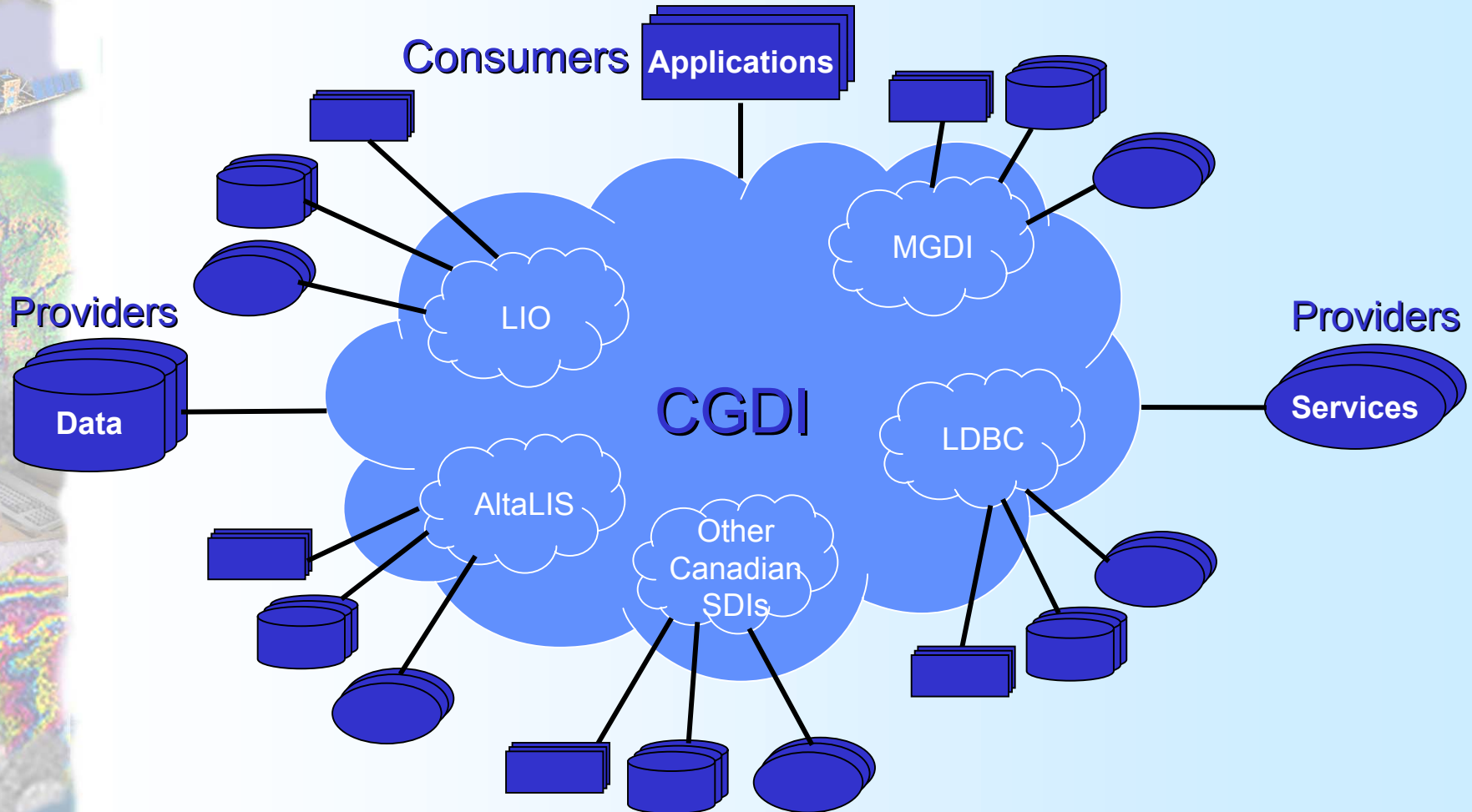
Autonomous
organizations ...

... that are
interdependent



Partnerships throughout Canada

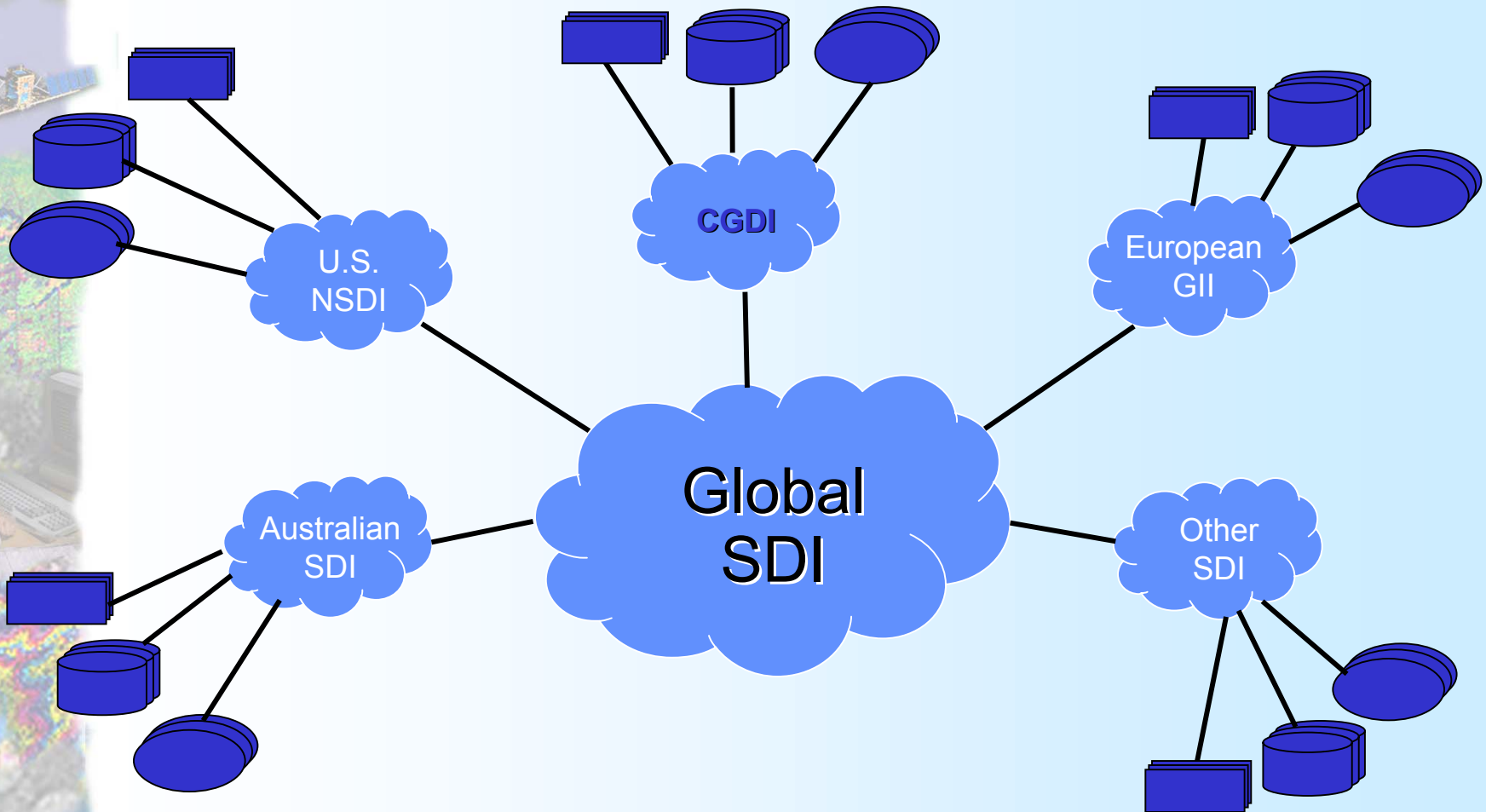
CGDI will facilitate partnerships to build a Canadian Infrastructure



A greater range of geospatial information will be available to Consumers

Global Participation

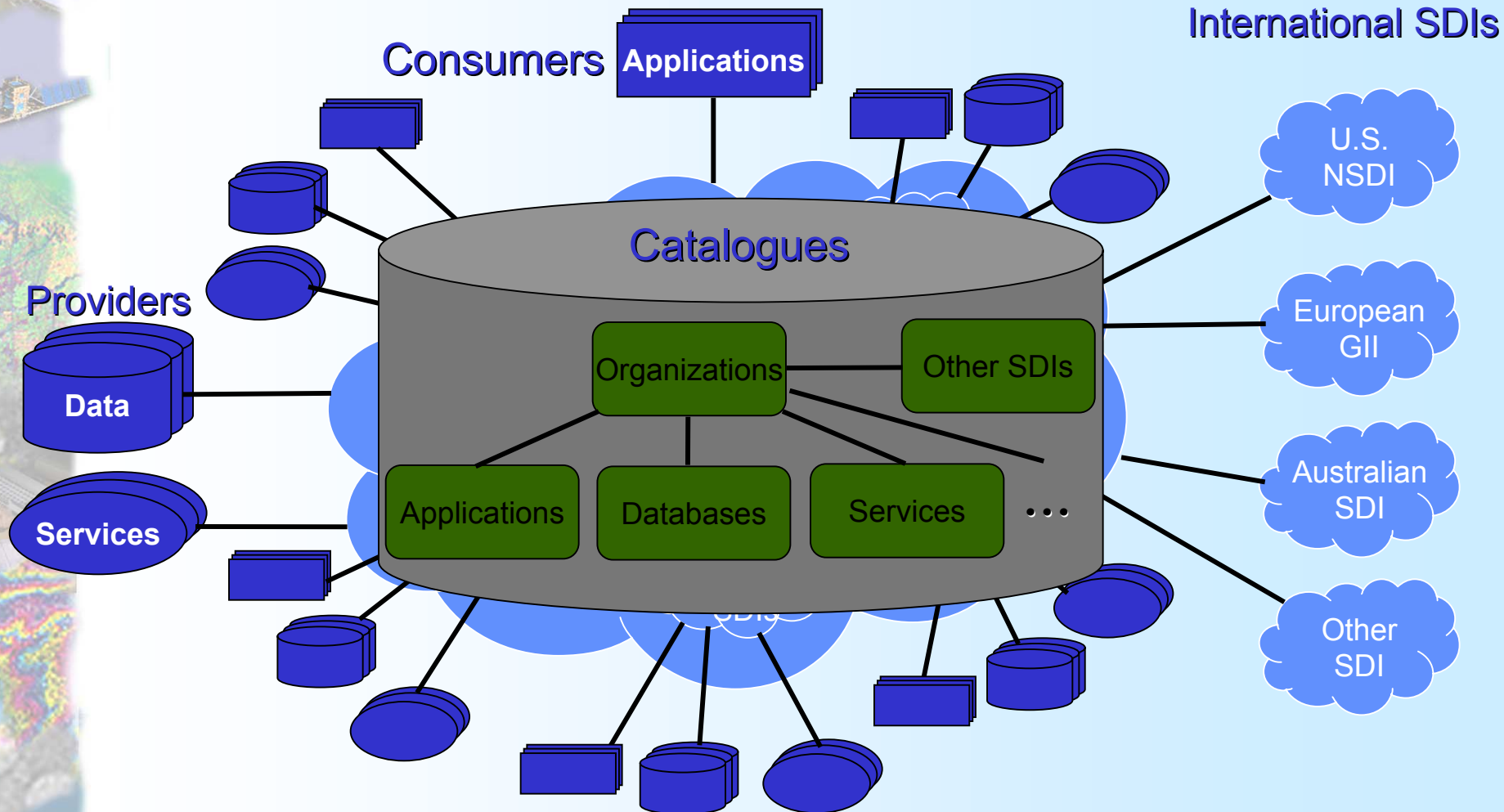
CGDI will join with other National SDIs to form a global SDI



Canadian information providers will have access to global markets

Catalogues for Discovery

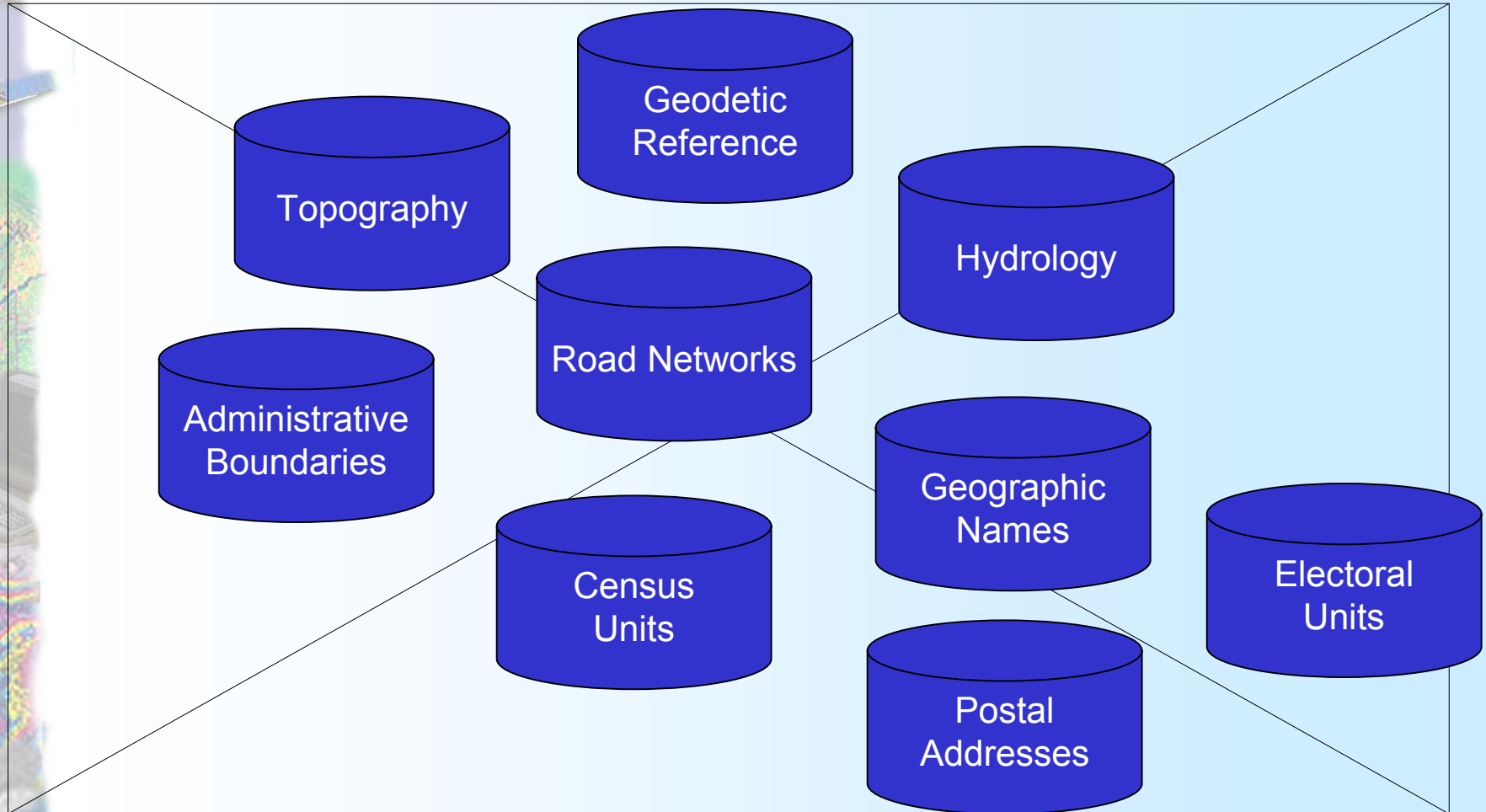
CGDI will provide Catalogues to enable Discovery



Catalogues will make geospatial information easier to find

Common Geospatial Framework Data

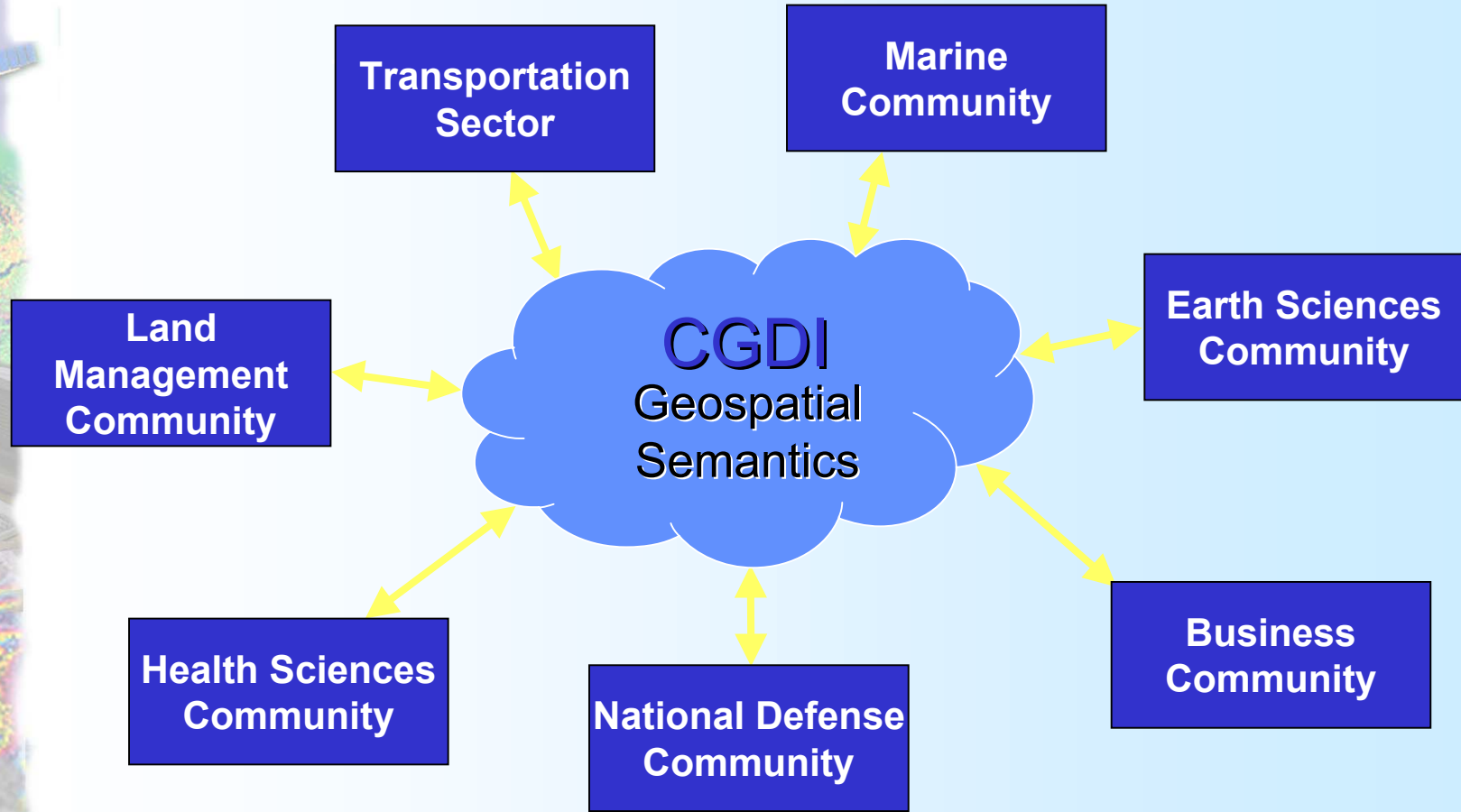
CGDI will make Framework Data available to all



Online Framework Data will make discovery and spatial integration easier

Shared Geospatial Semantics

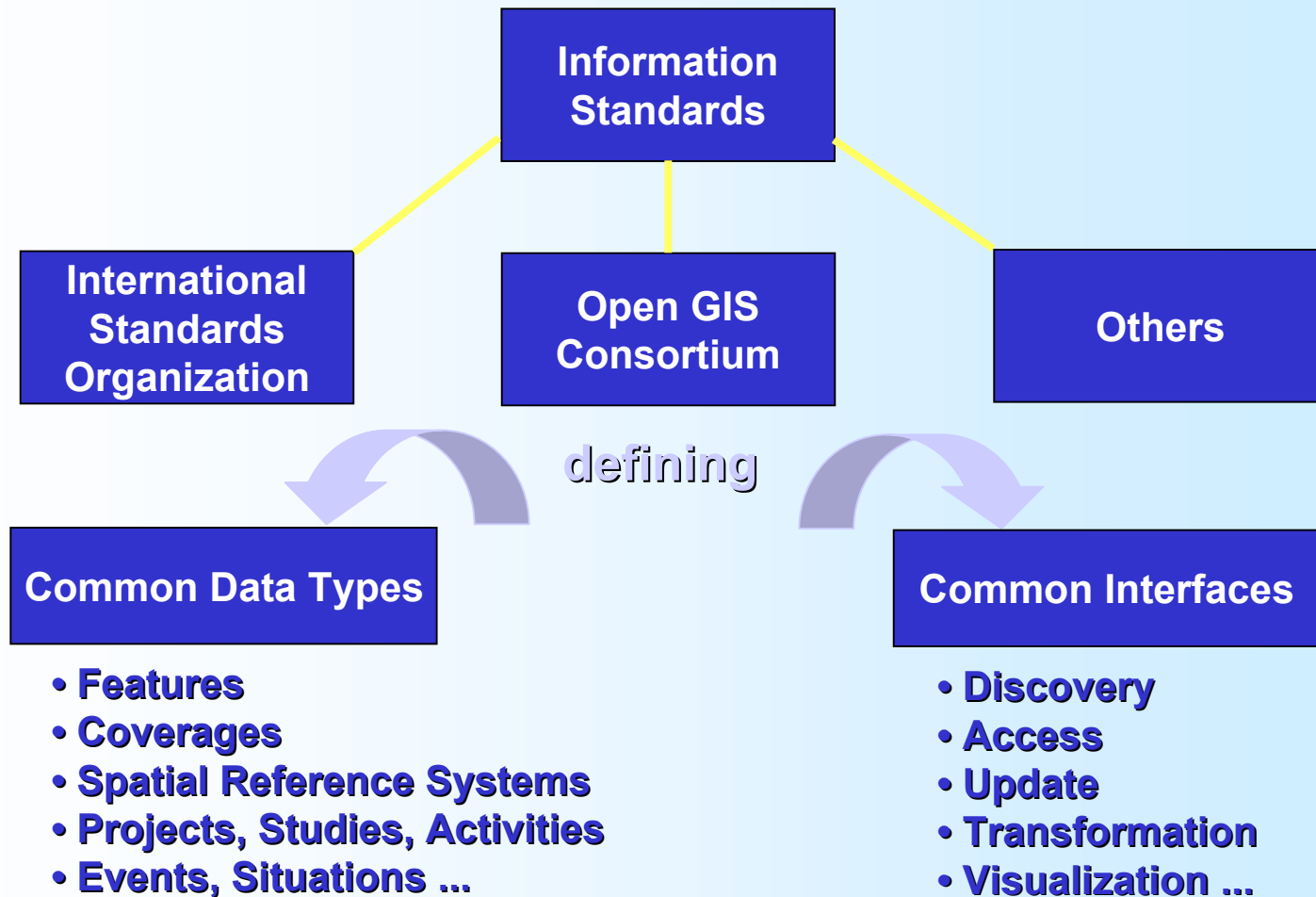
CGDI will facilitate sharing of geospatial semantics across communities



Shared semantics will enable geospatial data to be more easily integrated

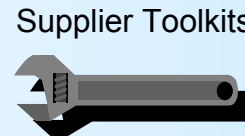
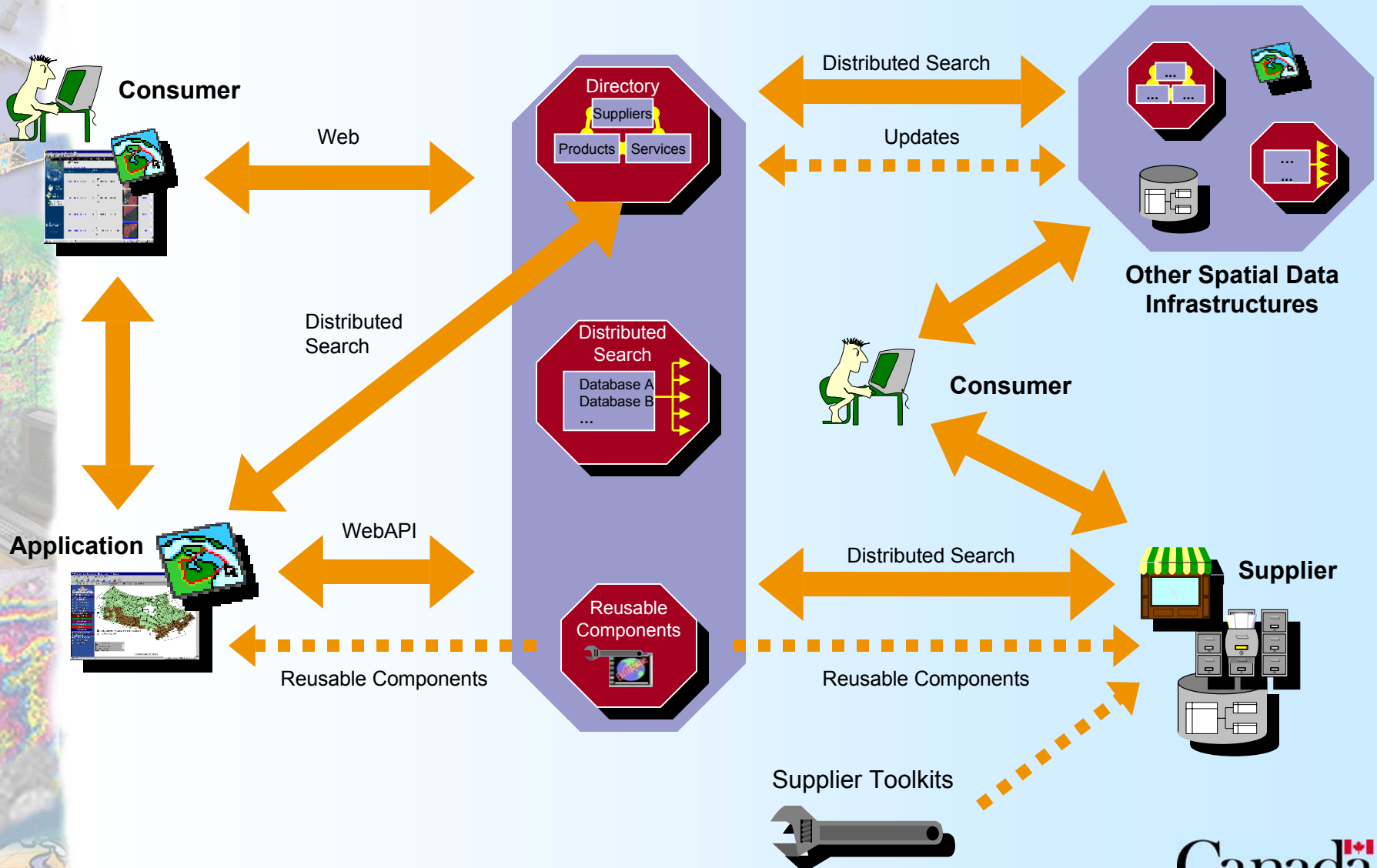
Adherence to Common Open Standards

CGDI will adhere to common open information standards

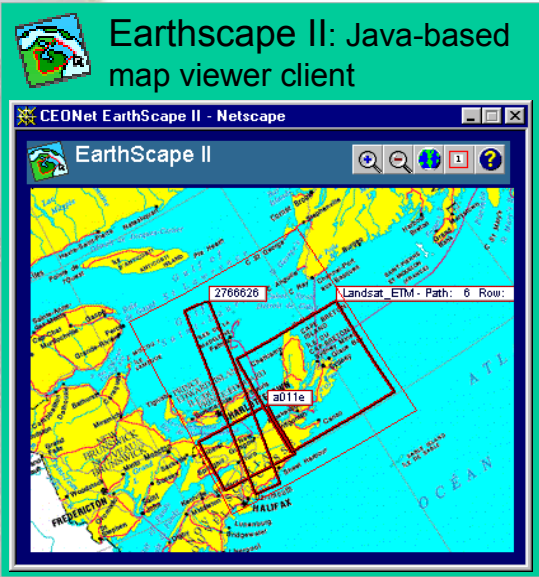


Standards adherence will result in interoperable, marketable components

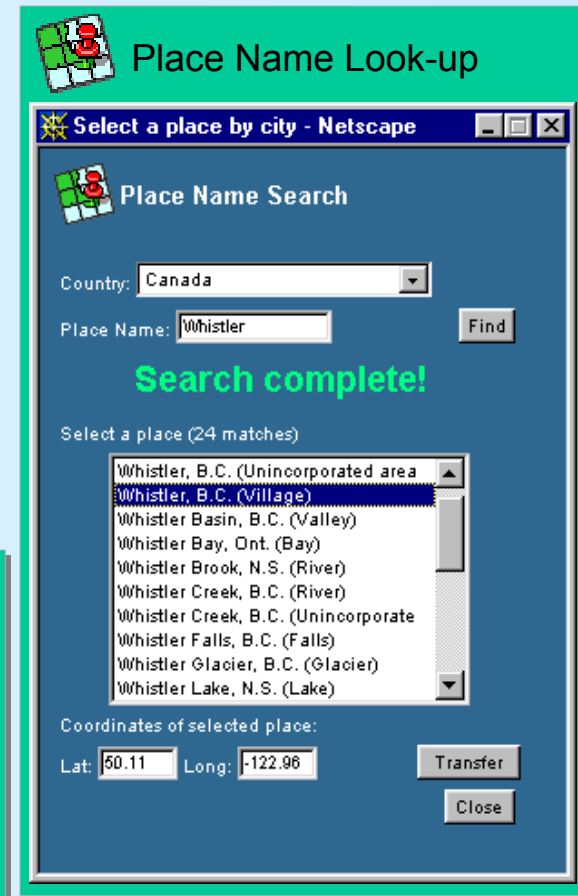
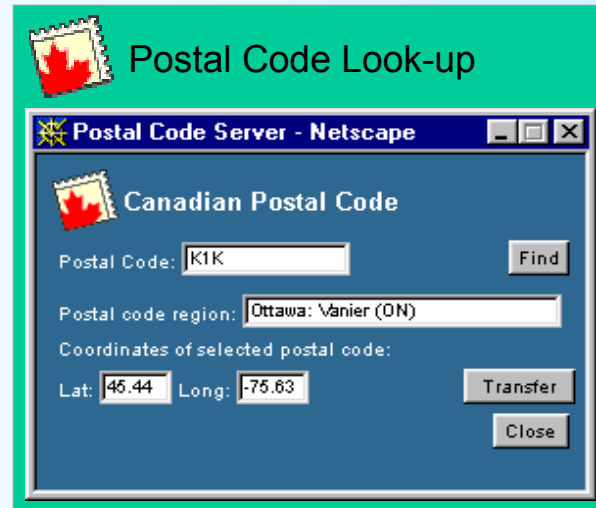
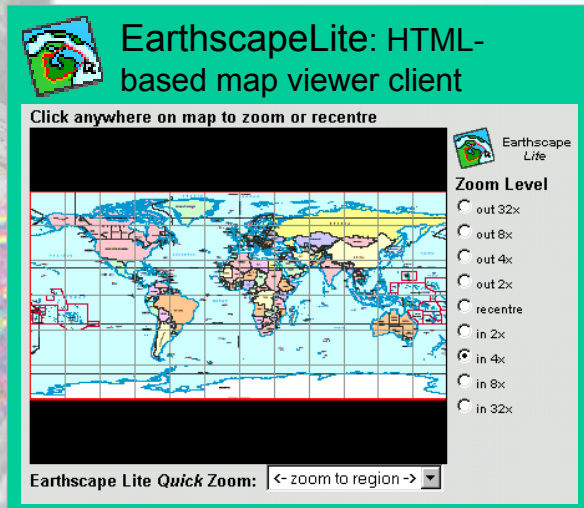
Discovery/Access Components



Freely Re-usable Components



RUCs
provide for geospatial
coordinate specification
and map footprint
display



Content and Usage

- 1600+ Organisations registered in the directory.
- 8300+ Data collections described in the directory.
- 255+ online search connections to remote, distributed databases/inventories.
- Operational since May '97 with frequent system releases (every 3 or 4 months).
- 100K use sessions per month.

EO Activities

- Catalogs of all EO data in Canadian archive
 - RADARSAT, Landsat (1-5,7), SPOT (1-4), AVHRR, ERS, SEASAT
- Access to USGS EROS Data Center EO catalogs
- Access to NASA EO catalogs

Some EO Discovery Requirements

- Near real time access to catalog and browse data
- Multi-mission simultaneous catalog searching
- Content/feature based discovery
- Subscription services

EO Activities

- 5+ WMS compliant servers, will grow rapidly
- WMS server at NRCan/CCRS has many geomatics layers
 - VMAP Level 0, Canada Land Inventory (6 layers), AVHRR Land Cover,
 - Plan to load Landsat 7 coverage of Canada
- Hosting/integrating Compusult Service Catalog

Some EO Visualization Requirements

- Seamless geographic access to multi-mission RS data
- Temporal access to data
- Ability to visualize EO data with other geomatics data
- Hyperspectral support
- Fast browsing/roaming at different resolutions
- Real time reformatting/reprojection

Some EO Processing Services Requirements

- Chaining of processing services
- Compression/data management schemes to support near real time processing
- Online ordering/E-Commerce/Online Delivery

WGISS Data & Information Products

Agglomeration of tools and services held and operated by CEOS organisations

A Proposed WGISS Test Environment

Version Sept 12, 2000

Products & services

WGISS Menu

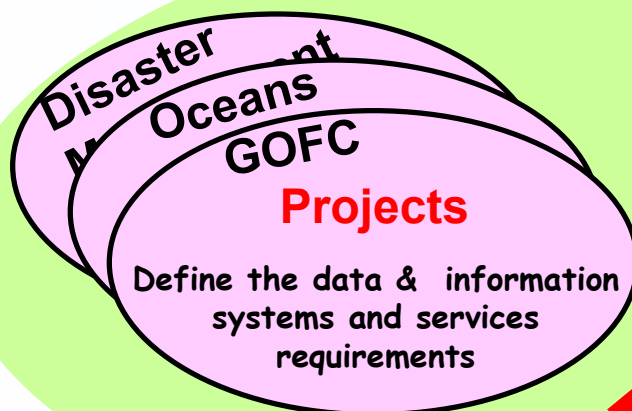
Open reference list of WGISS products & services, updated on the basis of the results of the test facility, linked on-line to the products and services themselves

Improved Products & Services

Based on the test facility results

Products & services

Links to data suppliers



Partnership

Nakodo

**Disaster Management
Oceans**

GOFC WGISS Test Facility

Selected WGISS products made into a coherent, open, modular system by the partners to address each project's needs (can include tools dev'd by the project), dev'd & tested against the project's requirements

Tools, data

Products & services

Non-WGISS requirements

Long term operation

That's It!

<http://geoconnections.org>